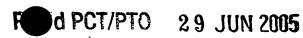
PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:



STU Via \	Viotti, 9 121 TOF	RTA S.r.I.		WRITTEN OPINION (PCT Rule 66)		
				Date of mailing (day/month/year)	29.12.2004	
	cant's or a 961 <i>/</i> 03	gent's file reference		REPLY DUE	within 2 month(s) from the above date of mailing	
	national ap	plication No. 1112	International filing date (c	day/month/year) Priority date (day/month/year) 30.12.2002		
1	International Patent Classification (IPC) or both national classification and IPC F16H7/12					
Appli DAY		ROPE S.R.L. ET AL			•	
1. 2.	This opi	Certain observations on the international application e applicant is hereby invited to reply to this opinion. See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d).				
	For the examiner's oblig For an informal commu		tunity to submit amendments, see Rule 66.4. gation to consider amendments and/or arguments, see Rule 66.4 bis. nication with the examiner, see Rule 66.6.			
4.	The fina	no reply is filed, the international preliminary examination report will be established on the basis of this opinion. The final date by which the international preliminary amination report must be established according to Rule 69.2 is: 30.04.2005				

Name and mailing address of the international preliminary examining authority:



European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

Authorized Officer

Goeman, F

Formalities officer (incl. extension of time limits)

De Jager, R Telephone No. +31 70 340-3390



WRITTEN OPINION

International application No.

PCT/EP 03/51112

I. Bas	is of	the	opinio	n
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1	the	ith regard to the elements of the international application (Replacement sheets which have been furnished to e receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally ed"):						
	1-1	13	as originally filed					
	Cla	aims, Numbers						
	1-8	3	as originally filed					
	Dra	awings, Sheets						
	1/4	-4/4	as originally filed					
2.	. Wii lan	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.						
	The	These elements were available or furnished to this Authority in the following language: , which is:						
		the language of pub	anslation furnished for the purposes of the international search (under Rule 23.1(b)).					
	Ц	the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3)						
3.	Wit inte	th regard to any nucl e ernational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
		contained in the inte	ernational application in written form.					
		filed together with the	ne international application in computer readable form.					
		☐ furnished subsequently to this Authority in written form.						
		☐ furnished subsequently to this Authority in computer readable form.						
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement that the listing has been furn	the information recorded in computer readable form is identical to the written sequence ished.					
4.	The	e amendments have r	resulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					
5.		This opinion has been been considered to	en established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).					

Form PCT/IPEA/408 (January 2004)

6. Additional observations, if necessary:

WRITTEN OPINION

- V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Claims

1,7,8

Inventive step (IS)

Claims

1,5,6,7,8

Industrial applicability (IA)

Claims

2. Citations and explanations

see separate sheet



Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents: 1.

D1: WO 00/77422 A (SCHAEFFLER WAELZLAGER) 21 December 2000 (2000-12-21)

D2: US-A-5 919 107 (STEPNIAK JACEK) 6 July 1999 (1999-07-06)

D3: US-A-4 906 222 (HENDERSON DEWEY D) 6 March 1990 (1990-03-06)

- The document D1 is regarded as being the closest prior art to the subject-matter 2. of claim 1, and discloses on page 12, paragraph 2 (the references in parentheses applying to this document): A two-arm belt tensioner for a belt drive, comprising: a fixed portion (32), designed to be fixed to a supporting structure; a first arm (7) and a second arm (8), carried by said fixed portion (54) and hinged thereto about a common axis; a first pulley (20) and a second pulley (21), mounted idle on respective ends of said arms (7,8) and designed to co-operate with respective branches (23a, 23b) of a belt (23) of said drive; and elastic means (14), which force said arms (7,8) towards one another to maintain said pulleys (20, 21) in contact with said respective branches (23a, 23b) of the belt (23), said arms (23, 24) comprise respective first arrest elements, which are designed to interact with said fixed portion (32) to define respective first positions of arrest of said arms (7,8) under the action of said elastic means (27), and respective second arrest elements, which are designed to interact with said fixed portion (32) to define respective second positions of end-of-travel of said arms (7,8) under the action of the pull of said belt. The subject-matter of claim 1 is therefore not novel (Article 33(2) PCT).
- The document D1 is regarded as being the closest prior art to the subject-matter 3. of claim 1, and discloses on page 12, paragraph 2 (the references in parentheses applying to this document): A belt drive for connecting a reversible electric machine (2) to an engine shaft of an internal combustion engine, said electric machine (2) being operable as an electric machine for starting said internal combustion engine or a generator, said drive comprising: at least one first pulley (24) fitted on the engine shaft of said internal combustion engine; a second pulley (18) fitted on a shaft of said electric machine (2); and a belt (23) wound around said pulleys (18, 24), said belt (23) comprising: a first branch (23a) and a second branch (23b) set respectively between said first pulley (18), and said second

pulley (24) and between said second pulley (24) and said first pulley (18) in the direction of motion of the belt (23) itself; and a two-arm (7,8) belt tensioner, which comprises: a fixed portion (32), designed to be fixed to a supporting structure; a first arm (7) and a second arm (9), carried by said fixed portion (32) and hinged thereto abort a common axis; a first pulley (20) and a second pulley (21), mounted idle on respective ends of said arms (7,8) and designed to co-operate respectively with said first branch (23a) and with said second branch (23b) of said belt (23); and elastic means (14), which force said arms (7,8) towards one another to maintain said pulleys (20, 21) in contact with said respective branches (7, 8) of the belt (23); said arms (7,8) comprise respective first arrest elements, which are designed to interact with said fixed portion (32) to define respective first positions of arrest of said arms (7, 8) under the action of said elastic means (14); and respective second arrest elements, which are designed to interact with said fixed portion (32) to define respective second positions of end of travel of said arms (7.8) under the action of the pull of said belt (23). D1 also discloses the additional features of claim 8. The subject-matter of claims 7 and 8 is therefore not novel (Article 33(2) PCT).

- The features of dependent claim 5 have already been employed for the same 4. purpose in a similar belt tensioner, see document D2, column 2, line 19. It would be obvious to the person skilled in the art, namely when the same result is to be achieved, to apply these features with corresponding effect to a belt tensioner according to document D1, thereby arriving at a tensioner according to claim 5. Thus, no inventive step is present in the subject-matter of claim 5 (Article 33(3) PCT).
- It is generally known to the person skilled in the art that the spring of document D1 5. is an equivalent to the spring of document D3 and can be interchanged with that feature where circumstances make it desirable. Hence, no inventive step is present in the subject-matter of claim 6 (Article 33(3) PCT).
- The subject-matter of claim 2 differs from this known tensioner in that an 5. appendage defining an element of contrast for said first and second arrest elements of said first and second arms is fixed to the base plate. The subject-matter of claim 2 is therefore new (Article 33(2) PCT).

The problem to be solved may be regarded as to make a simple base plate. Although an appendage defining an element of contrast for said first and second



arrest elements of an tensioner arm is known, using the same appendage for both tensioner arms is not known from nor is it rendered obvious by any available prior art document. Claims 3 and 4 are dependent on claim 2 and as such also meet the requirements of the PCT with respect to novelty and inventive step. The dependent claims 2-4 therefore meet the requirements of Articles 33(2) and 33(3) PCT.